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Abstract

PURPOSE: To clean effectively the whole face of a filter membrane by feeding a specified amt. of a chem. liq. with a specified pressure and a uniform flow rate into a transmitting liq. flow path in the reverse direction of the flow of the transmitting liq. under a condition where a membrane element is immersed in a water to be treated and holding it for a specified time.

CONSTITUTION: In a membrane element 2 of an immersion type separation unit used in solid-liq. separation application in activated sludge processing of an org. drainage, a transmitting liq. flow path 5 opening on the surface of a flat sheet-type membrane substrate 4 is formed and a filter membrane 6 covering the surface of the membrane substrate 4 is arranged. In cleaning of the membrane element 2 like this, a chem. liq. is fed into a transmitting liq. flow path in the reverse direction of the flow of the transmitting liq. under a condition where a membrane element 2 is immersed in a water to be treated and the chem. liq. is held for a specified time. In this case, the amt. of the chem. liq. to be fed is made to be an amount by which the chem. liq. flows equally into each membrane element being arranged in parallel, namely, about 1/5 to 1/10 of the max. transmitting and holding vol. of the membrane element and it is fed at a low pressure of at most 10kPa.

